

ANNEXURE A : TECHNICAL SPECIFICATION

APPOINTMENT OF A SERVICE PROVIDER TO RENDER FIRE SUPPRESSION SYSTEM, FIREFIGHTING EQUIPMENT AND ELECTRICAL MAINTENANCE SERVICES AT ATNS OR TAMBO INTERNATIONAL AIRPORT CONTROL CENTRE, LOCAL AND REMOTE SITES FOR A PERIOD OF FIVE (5) YEARS

1.1. ROLE AND OBJECTIVES

- 1.1.1. Fire suppression system, Firefighting equipment and Electrical Maintenance service bid is aimed at assisting ATNS accomplish its risk management objectives by ensuring that all ATNS OR TAMBO Control Centre fire suppression systems, firefighting equipment and electrical reticulation items are maintained, serviced, repaired and restored to their normal operating conditions.
- 1.1.2. The objective of this bid is to appoint a suitable fire suppression system, firefighting equipment and Electrical service and maintenance provider that can provide assurance to ATNS Management in discharging its responsibilities regarding fire suppression system, firefighting equipment and electrical maintenance services. The bidder must demonstrate the capability to perform effective fire suppression systems, firefighting equipment and electrical maintenance service in accordance with all legal and statutory requirements.

1.2. DURATION OF THE CONTRACT

- 1.2.1. Service providers are herewith invited to submit proposal for the fire suppression systems, firefighting equipment and electrical maintenance Services at ATNS OR Tambo International Airport and local/remote sites for a period of five (5) years.

2. THE PROPOSALS SHOULD BE FOR THE FOLLOWING:

- 2.1. Maintenance Services of the ATNS OR Tambo local/remote sites fire suppression systems and firefighting equipment and Electrical maintenance; (fire suppression and Electrical Reticulation systems Routine Checks are to be done every three (3) months – Quarterly Base); details are listed hereto as Annexure A, table A1.
- 2.2. This entails regular visual inspections, functional tests, and component replacements to ensure the system operates effectively and reliably including checking for leaks, ensuring proper pressure levels, inspecting nozzles and valves for blockages or damage, and verifying the functionality of the alarm and activation mechanisms.
- 2.3. Quarterly Fire Suppression System Maintenance services: **Potgietersrus, Wakkerstroom and Kruger Radar sites** (details are listed hereto as Annexure A, table A2).

- 2.4. Yearly servicing of Fire extinguishers, Fire Hoses and Fire hydrants (details are listed hereto as Annexure A, table A3).
- 2.5. Quarterly Electrical DB and Earth Tests Maintenance services: **FAOR, SSS, Isando Bapsfontein, Delmas, SBand1, SBand2, RX, TX, Jasper, Potgietersrus, Wakkerstroom and Kruger Radar sites** (details are listed hereto as Annexure A, table A4).
- 2.6. Conduct AD-HOC Electrical Reticulation systems maintenance and equipment repairs as requested by management on quotation basis This includes callout and emergency responses.
- 2.7. Conduct AD-HOC Fire suppression system and firefighting equipment (Pressure testing and Hydrostatic testing) repairs requested by management on quotation basis. This includes callout and emergency responses.
- 2.8. Carry out any additional work over and above the scheduled maintenance service such as Gas Cylinder pressurisation, purchasing of light fittings, globes and other electrical consumables, which ATNS may require to maintain the sites in a proper and safe working condition. This includes work on all ATNS OR TAMBO sites, Head Office and Training Academy.
- 2.9. Attendance and reporting to the ATNS OR Tambo International Airport Management on a six (6) monthly for any significant findings identified during the service and maintenance activities.
- 2.10. Supply any parts or components that may be required for maintenance purpose, during the period of this agreement. (market related prices)
- 2.11. If uneconomical to maintain or to repair; Supply new fire suppression systems, firefighting equipment Unit and Electrical Item to replace the failed units on critical equipment and buildings. (Provide market related prices on the quote)
- 2.12. Commissioning of the new fire suppression system or firefighting equipment Unit and provide site acceptance test documents on any of the eight Northern regional airports, ATNS HQ and ATA using the same rates as OR Tambo.
- 2.13. Recommend on required repairs after maintenance/inspections and provide a 12 Month maintenance and guarantee on all new installations.
- 2.14. All new and fire and Electrical installations related work must include costing for supply of electrical COC's.
- 2.15. Develop and submit a safety file

3. TECHNICAL SPECIFICATIONS

3.1. ATNS local sites fire suppression systems

3.1.1. Below table is ATNS local sites fire suppression systems details - **Quarterly Service**.

Area	QTY	Sizes
<u>Main Tower</u>		
Inergen	5	27L Inergen Cylinder 200bar
<u>ATC Hall in Consol</u>		
Inergen	21	4L Inergen Cylinder 15bar
<u>LV Room & UPS 4A</u>		
Inergen	10	80L Inergen Cylinder 300bar
<u>Tower Cable Shaft</u>		
Inergen	4	80L Inergen Cylinder 300bar
<u>Tower Cable Shaft T13</u>		
Inergen	4	80L Inergen Cylinder 300bar
<u>Tower Cable Shaft T16</u>		
Inergen	5	80L Inergen Cylinder 300bar
<u>Tower Cable Shaft T21</u>		
Inergen	2	80L Inergen Cylinder 300bar
<u>Tower, Second Floor (T17)</u>		
Inergen	2	80L Inergen Cylinder 300bar
<u>MDF Room</u>		
Inergen	4	80L Inergen Cylinder 300bar
<u>ATC Hall Ceiling Void</u>		
Inergen	28	80L Inergen Cylinder 300bar
<u>Equipment Room Ceiling Void</u>		
Inergen	16	80L Inergen Cylinder 300bar
<u>Equipment Room</u>		
Inergen	20	80L Inergen Cylinder 300bar
<u>Next To Equipment Room</u>		
Inergen	9	80L Inergen Cylinder 300bar
<u>UPS 4B</u>		
Inergen	3	80L Inergen Cylinder 300bar
<u>Equipment Room Basement</u>		
Inergen	17	80L Inergen Cylinder 300bar
<u>ATC Hall Basement</u>		
Inergen	27	80L Inergen Cylinder 300bar
<u>SSS-7</u>		
Inergen	8	80L Inergen Cylinder 300bar
<u>SSS-12 Gen Room #2</u>		
Inergen	2	80L Inergen Cylinder 300bar
<u>SSS-11 UPS1A & main LV Board #2</u>		
Inergen	3	80L Inergen Cylinder 300bar
Inergen	2	80L Inergen Cylinder 300bar
<u>Simulator Room</u>		
Inergen	16	80L Inergen Cylinder 300bar
<u>SSS Building</u>		
Inergen	4	80L Inergen Cylinder 300bar
<u>RX Station</u>		
Inergen	5	80L Inergen Cylinder 300bar
<u>TX Station</u>		
Inergen	6	80L Inergen Cylinder 300bar
<u>Sub-3 UPS2A & 2B</u>		
Inergen	3	80L Inergen Cylinder 300bar
<u>Sub-6 Generator Room #3</u>		
Inergen	4	80L Inergen Cylinder 300bar

Sub-7 Generator Room #4		
Inergen	4	80L Inergen Cylinder 300bar
Sub-10 UPS 3A & 3B		
Inergen	3	80L Inergen Cylinder 300bar
Sub-12 Transformer Room East		
Inergen	2	80L Inergen Cylinder 300bar
Sub-8 ATNS Tower		
Inergen	5	80L Inergen Cylinder 300bar
Sub-5 ATNS West		
Inergen	5	80L Inergen Cylinder 300bar
Sub-1 Transformer Room West		
Inergen	2	80L Inergen Cylinder 300bar
Bapsfontein		
Inergen	2	80L Inergen Cylinder 300bar
Radar S-Band 1		
Inergen	7	80L Inergen Cylinder 300bar
Radar S-Band 2		
Inergen	3	80L Inergen Cylinder 300bar
Jaspa (SMR 2)		
Inergen	2	27L Inergen Cylinder 200bar
Delmas		
Inergen	4	80L Inergen Cylinder 300bar
TOTAL:	234	

Table A 1: ATNS local sites fire suppression systems details

3.2. ATNS remote sites fire suppression systems

3.2.1. Below table is ATNS remote sites fire suppression systems details - **Quarterly Service**. Requires site visit every quarter. The Distance to the remote sites is measured from OR Tambo international airport.

Site	QTY	Date of last HTP	Sizes	Additional Requirements
Wakkerstroom (350Km)				
Inergen	2		100L Inergen Cylinder (200Bar)	
Potgietersrus (280Km)				
Inergen	2		100L Inergen Cylinder (200Bar)	
Kruger Airport (350Km)				
Inergen	2		80L Inergen Cylinders (149bar)	
TOTAL:	6			

Table A 2: ATNS remote sites fire suppression systems details

3.3. ATNS fire extinguisher service and certification

3.3.1. Below table is ATNS fire extinguisher service and certification details - **Annual Service**.

ITEMS	QTY
5KG CO2	130
2.5KG DCP	70
HOSE REEL	18
HYDRANT	8
2KG CO2	40
9KG DCP	40
9KG CO2	40
Total	346

Table A 3: ATNS fire extinguisher service and certification details

3.4. ATNS close and remote sites Electrical Reticulation

3.4.1. Below table is ATNS close and remote sites Electrical Reticulation details – **Annual Service**. Requires site visit every year. The Distance to the remote sites is measured from OR Tambo international airport.

Site	Distance (Km)
OR Tambo Control Tower Complex	0Km
Substation	0Km
SSS	0Km
RX Station	0Km
TX Station	0Km
SBand1	0Km
SBand2	10Km
Isando (10Km)	10Km
Bapsfontein	30Km
Delmas	40Km
Jasper	2km
Wakkerstroom	350Km
Potgietersrus	280Km
Kruger Airport	350Km
TOTAL:	14

Table A 4: ATNS local and remote sites electrical reticulation systems details